BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF DRAIN AND CULVERTS AT YELAHANKA NEW TOWN 5th PHASE VARD NO.02 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 25.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
		Cum							
	for Culvert		4	6.00	1.60	1.30	49.92		
	for Rcc Drain		1	143.00	1.00	1.00	143.00		
							192.92	200.34	**38649.59**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
2	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
		Cum							
	for open sid=te		1	20.00	25.00	0.35	175.00		
							175.00	166.42	**29123.50**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
	Average Weight of Earth 1.28 Tonne/Km			Qty Vide Item No.1+2			**367.92**	100.00	**36792.00**
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Total	**100.00**							
KSR 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	Cum							
for Culvert		4	6.00	1.60	0.15	5.76		
for open site		1	20.00	25.00	0.15	75.00		
for Rcc Drain		1	143.00	1.00	0.15	21.45		
						102.21	5159.02	**527303.43**
Basic Rate	4867.00							
Area Weightage @ 6%	292.02							
Total	**5159.02**							
KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)								
	Cum							
for Culvert		8	6.00	0.45	0.80	17.28		
						17.28	4438.22	**76692.44**
Basic Rate	4187.00							
Area Weightage @ 6%	251.22							
Total	**4438.22**							
KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.113/Item No. 15.1)								
	Cum							
for Culvert		8	6.00		0.80	38.40		
						38.40	102.82	**3948.00**
Basic Rate	97.00							
Area Weightage @ 6%	5.82							
Total	**102.82**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification No. KBS 4.1,4.2.(P No. 13 / Item No.4.7)								
coping	Cum							
for Culvert		8	6.00	0.45	0.10	2.16		
Vent		4	6.00	0.60	0.10	1.44		
Ramp		8	6.00	0.60	0.10	2.88		
						6.48	5598.92	**36281.00**
Basic Rate	5282.00							
Area Weightage @ 6%	316.92							
Total	**5598.92**							
Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	Cum							
		1	20.00	25.00	0.15	75.00		
						75.00	6231.74	**467380.50**
Basic Rate	5879.00							
Area Weightage @ 6%	352.74							
Total	**6231.74**							

KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)

	tonne	No.of Bars	Width/Lengt	Rmtr	Kg/Rmtr	Total in Kg
mm dia main bar spacing at 150mm c/c	1	953	2.10	2002.00	0.888	1777.78
mm dia dist bar spacing at 150mm c/c	1	14	143.00	2002.00	0.617	1235.23
					in Kg	3013.01
					in Qtl	30.130

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
					in tonne	3.0130	64243.42	193566.07
Basic Rate	60607.00							
Area Weightage @ 6%	3636.42							
Total	**64243.42**							

KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)

	Sqm							
		2x2	143.00		0.60	343.20		
						343.20	310.58	106591.06
Basic Rate	293.00							
Area Weightage @ 6%	17.58							
Total	**310.58**							

Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)

	Cum							
bed		1	143.00	1.00	0.15	21.45		
Side wall		2	143.00	0.15	0.60	25.74		
						47.19	6371.66	300678.64
Basic Rate	6011.00							
Area Weightage @ 6%	360.66							
Total	**6371.66**							

Providing and fixing **RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete

for culverts	Sqm							
covering slab		4	6.00	1.50		36.00		
						36.00	4402.79	158500.00

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Data Rate	**4402.79**							
Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Sqm							
		1	143.00	0.90		128.70		
						128.70	2100.00	**270270.00**
Data Rate	**2100.00**							
Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	Sqm							
		1	20.00	25.00		500.00		
						500.00	95.40	**47700.00**
Basic Rate	90.00							
Area Weightage @ 6%	5.40							
Total	**95.40**							
						Sub-Total Amount		2293476.00
9% for KRIDL Charges								206413.00
Miscellaneous and unforeseen charges								111.00
						Grand Total Amount		2500000.00

(Rupees Twenty Five Lakhs Only)

IFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

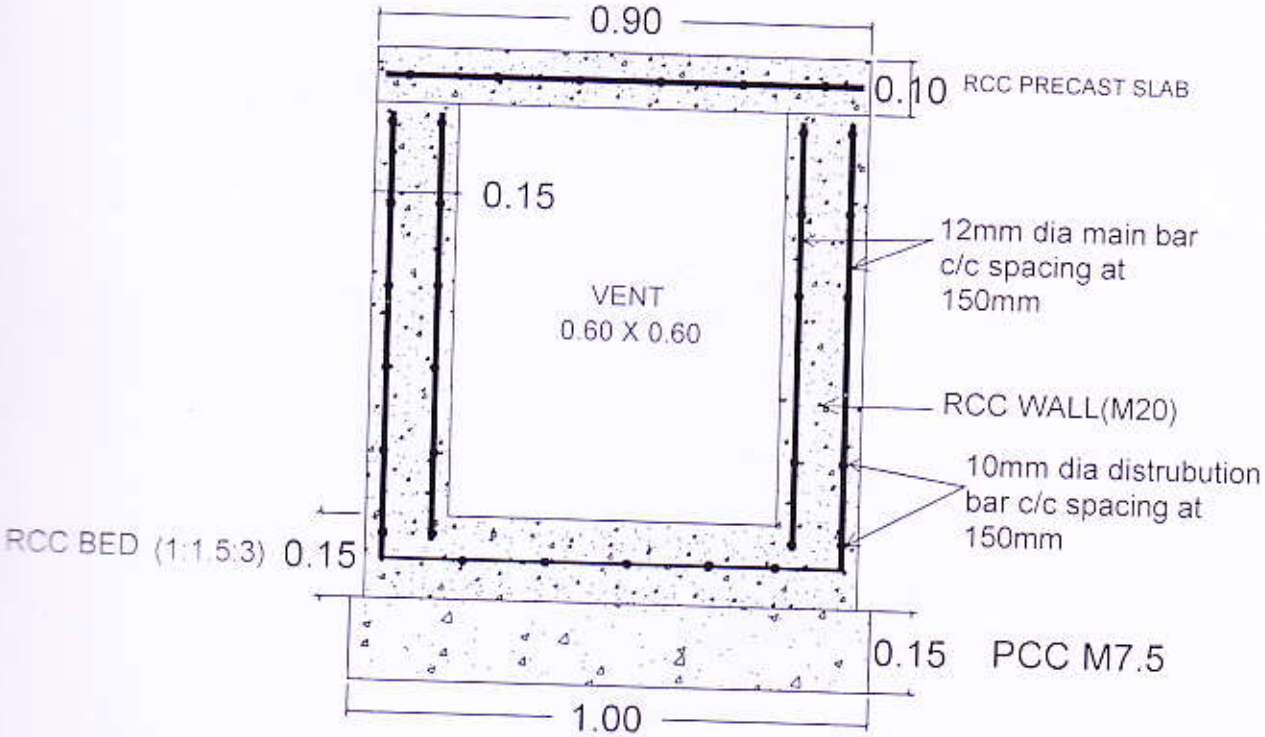
Administrative Approval
Accorded For 25.00 lakh Rs.
Head of A/C P3167
CER NO : 14 Dt 10/11/17

TA CE (YNK)

Technical Sanction
Accorded For 25.00 lakh Rs.
Head of A/C P3167
CER NO : 274 Dt: 10-11-17

TA CE (YNK)

AME OF WORK : CONSTRUCTION OF DRAIN AND CULVERTS AT YELAHANKA NEW TOWN 5th PHASE IN WARD NO.02 OF YELAHANKA SUB-DIVISION



CROSS SECTION OF RCC DRAIN

YELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD